

FIGURE 1

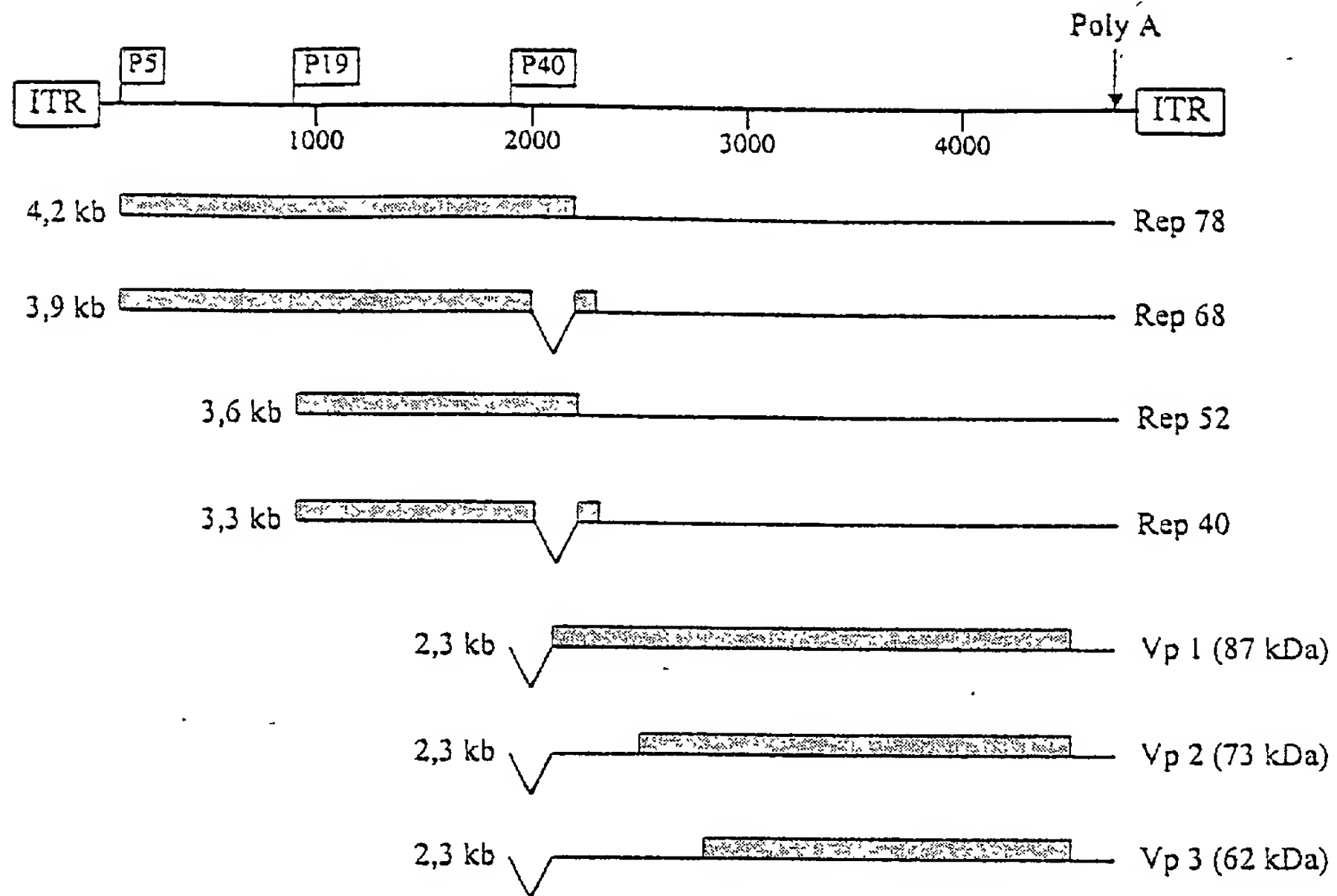


FIGURE 2A

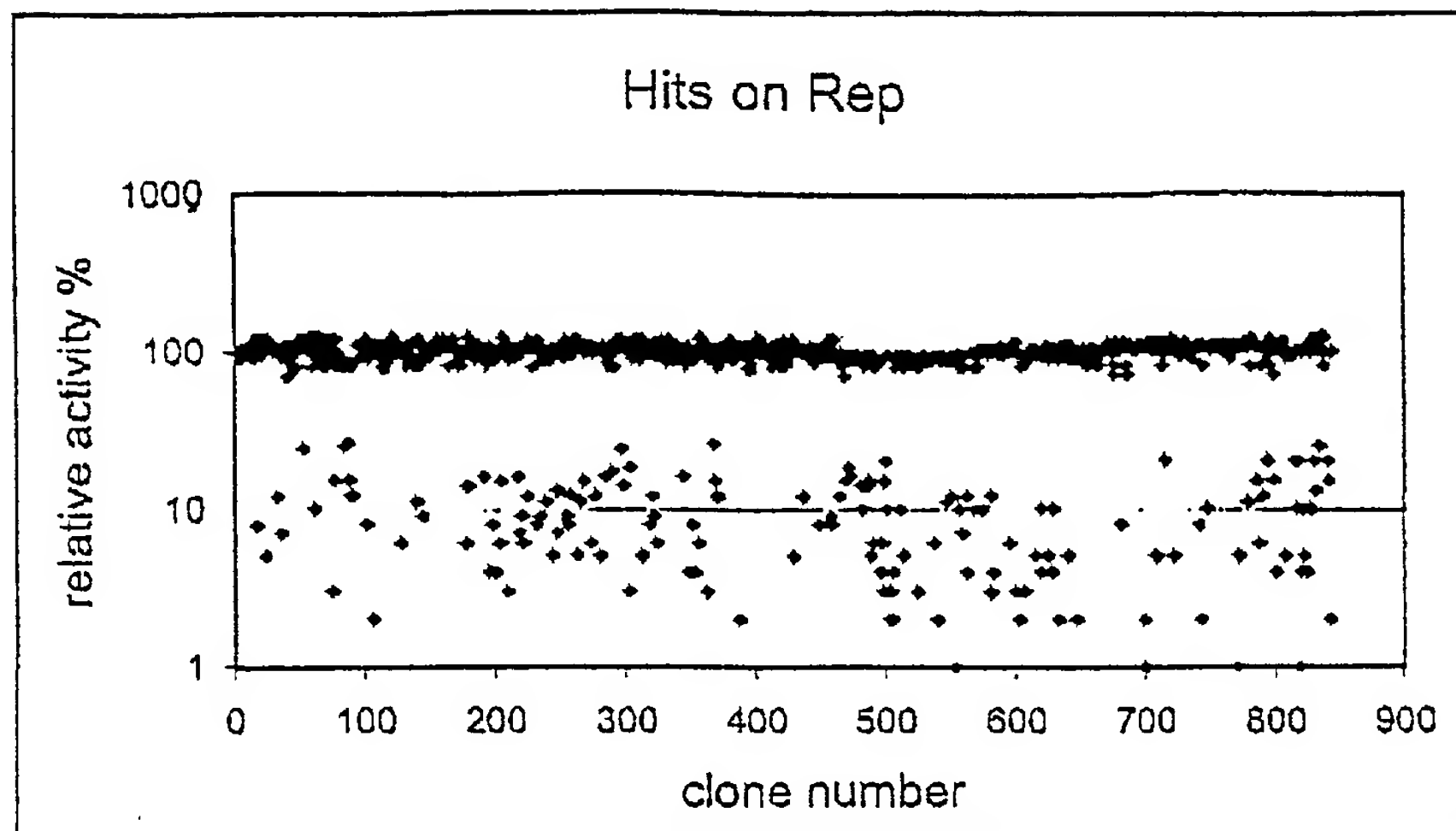


FIGURE 2B

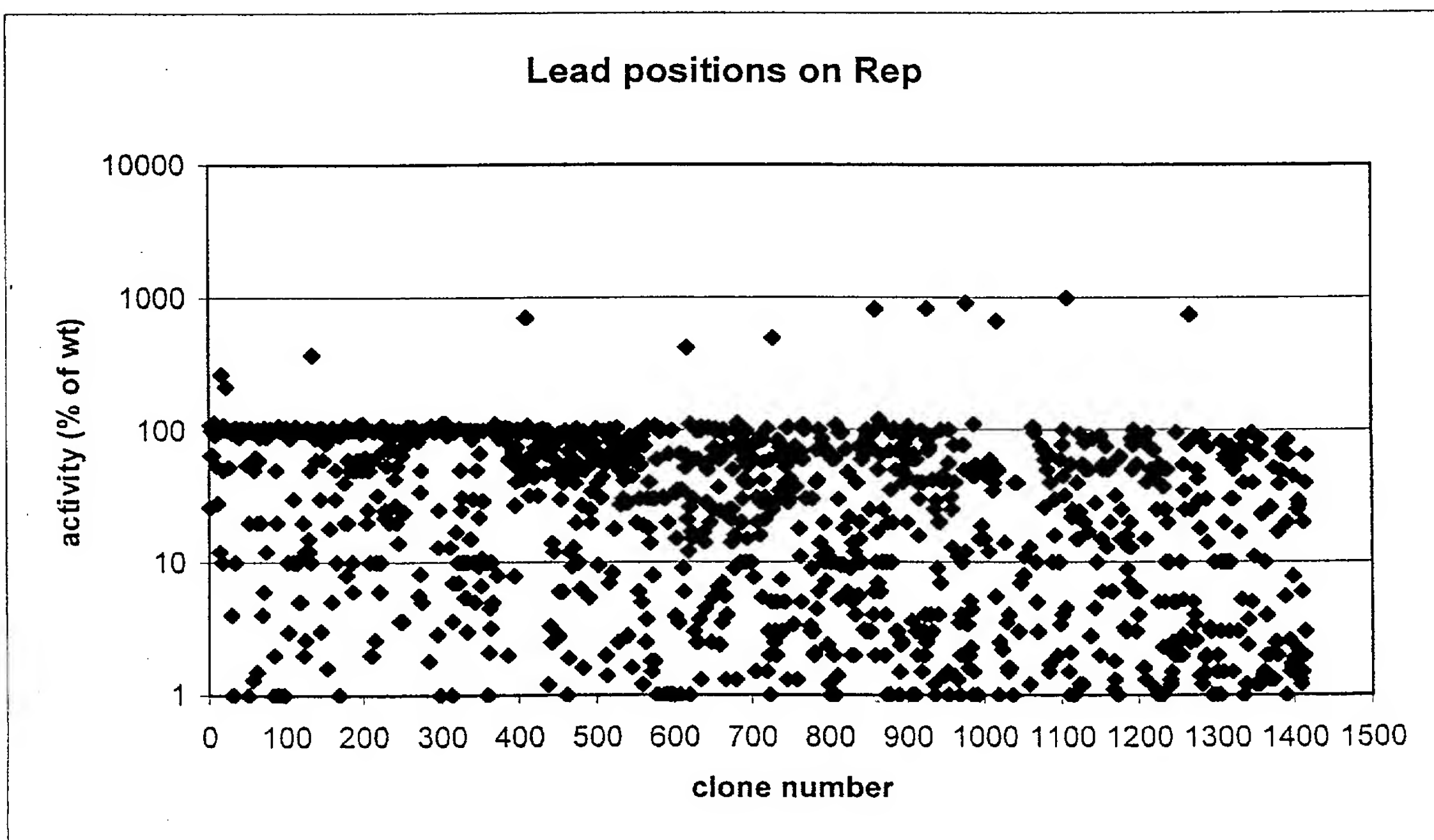


FIGURE 3A

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      10      20      30      40      50      60
1  MPGFYEIVIKVPSDDLDEHLPGISDSFVSWVAEKEWELPPDSMDLNLIEQAPLTVAEKLQ 60
2  MPGFYEIVIKVPSDDLDEHLPGISDSFVNWVAEKEWELPPDSMDLNLIEQAPLTVAEKLQ 60
3  MPGFYEIVLKVPSDDLDEHLPGISNSFVNWVAEKEWELPPDSMDPNLIEQAPLTVAEKLQ 60
4  MPGFYEIVLKVPSDDLDEHLPGISNSFVNWVAEKEWELPPDSMDPNLIEQAPLTVAEKLQ 60
5  MPGFYEIVLKVPSDDLDEHLPGISDSFVSWVAEKEWELPPDSMDLNLIEQAPLTVAEKLQ 60
6  MPGFYEIVIKVPSDLGDHLPGISDSFVNWVAEKEWELPPDSMDLNLIEQAPLTVAEKLQ 60
7  MATFYEIVIRVPFDVEEHLPGISDSFVDWVTGQIWELPPESDLNLTVEQPQLTVADRIR 60
C  M**FYE**:*VP*D***HLPGIS+SFV:WV****WELPP*SD**+*L*EQ**LTVA****

      70      80      90     100     110     120
1  RDFLVQWRRVSKAPEALFFVQFEKGESYFHLHLVETTGVKSMVLGRFLSQIRDKLVQTI 120
2  RDFLVQWRRVSKAPEALFFVQFEKGESYFHLHLVETTGVKSMVLGRFLSQIRDKLVQTI 120
3  REFLVEWRRVSKAPEALFFVQFEKGETYFHLHLVLIETIGVKSMVVGRYVSQIKEKLVTRI 120
4  REFLVEWRRVSKAPEALFFVQFEKGETYFHLHLVLIETIGVKSMVVGRYVSQIKEKLVTRI 120
5  REFLVEWRRVSKAPEALFFVQFEKGDSYFHLHLVETVGVKSMVVGRYVSQIKEKLVTRI 120
6  RDFLVEWRRVSKAPEALFFVQFEKGESYFHMHLVETTGVKSMVLGRFLSQIREKLIQRI 120
7  RVFLYEWNKFSKQ-ESKFFVQFEKGSEYFHLHTLVETSGISSMVLGRYVSQIRAQLVKVV 119
C  R:FL++W***SK**E**FFVQFEKG+:YFH*H:L+ET:G**SMV:GR::SQI::*L*:*

      130     140     150     160     170     180
1  YRGIEPTLPNWFVAVTKTRNGAGGGNKVVDECYIPNYLLPKTQPELQAWTNMEEYISACL 180
2  YRGIEPTLPNWFVAVTKTRNGAGGGNKVVDECYIPNYLLPKTQPELQAWTNMEEYISACL 180
3  YRGVEPQLPNWFVAVTKTRNGAGGGNKVVDDCYIPNYLLPKTQPELQAWTNMDQYLSACL 180
4  YRGVEPQLPNWFVAVTKTRNGAGGGNKVVDDCYIPNYLLPKTQPELQAWTNMDQYLSACL 180
5  YRGVEPQLPNWFVAVTKTRNGAGGGNKVVDDCYIPNYLLPKTQPELQAWTNMDQYISACL 180
6  YRGIEPTLPNWFVAVTKTRNGAGGGNKVVDECYIPNYLLPKTQPELQAWTNMEQYLSACL 180
7  FQGIPEQINDWVAITKVKK--GGANKVVDSGYIPAYLLPKVQPELQAWTNLDEYKLAAL 177
C  **G:EP:***W*A*TK*****GG*NKVVD:*YIP*YLLPK*QPELQAWTN*::Y:*A*L

      190     200     210     220     230     240
1  NLAERKRLVAQHLTHVSQTQEQNKENLNPNSDAPVIRSKTSARYMELVGWLVDRGITSEK 240
2  NLAERKRLVAHDLTHVSQTQEQNKENLNPNSDAPVIRSKTSARYMELVGWLVDRGITSEK 240
3  NLAERKRLVAQHLTHVSQTQEQNKENQNPNSDAPVIRSKTSARYMELVGWLVDRGITSEK 240
4  NLAERKRLVAQHLTHVSQTQEQNKENQNPNSDAPVIRSKTSARYMELVGWLVDRGITSEK 240
5  NLAERKRLVAQHLTHVSQTQEQNKENQNPNSDAPVIRSKTSARYMELVGWLVDRGITSEK 240
6  NLTERKRLVAQHLTHVSQTQEQNKENQNPNSDAPVIRSKTSARYMELVGWLVDKGITSEK 240
7  NLEERKRLVAQFLAESSQRS-QEASQREFSADPVIKSKTSQKYMALVNWLVEHGITSEK 236
C  NL+ERKRLVA*+L***SQ***Q*****+***S**PVI*SKTS**YM*LV*WLV*+GITSEK

      250     260     270     280     290     300
1  QWIQEDQASYISFNAASNSRSQIKAALDNAGKIMALTKSAPDYLVGPPADIKTNRIYR 300
2  QWIQEDQASYISFNAASNSRSQIKAALDNAGKIMALTKSAPDYLVGPPADIKTNRIYR 300
3  QWIQEDQASYISFNAASNSRSQIKAALDNASKIMSLTKTAPDYLVGSNPPEDITKNRIYQ 300
4  QWIQEDQASYISFNAASNSRSQIKAALDNASKIMSLTKTAPDYLVGSNPPEDITKNRIYQ 300
5  QWIQEDQASYISFNAASNSRSQIKAALDNASKIMSLTKTAPDYLVGQNPPEDISSNRIYR 300
6  QWIQEDQASYISFNAASNSRSQIKAALDNAGKIMSLTKTAPDYLVGQOPVEDISSNRIYK 300
7  QWIQENQESYLSFNSTGNSRSQIKAALDNATKIMSLTKSAVDYLVGSSVPEDISKNIWQ 296
C  QWIQE*Q*SY*SFN***NSRSQIKAALDNA:KIM+LTK:A*DYLVG::**+DI::NRI*:

      310     320     330     340     350     360
1  ILELNGYEPAYAGSVFLGWAQKRFGRNTIWLFGPATTTGKTNIAEAIAHAVPFYGCNVWT 360
2  ILELNGYDPAYAGSVFLGWAQKRFGRNTIWLFGPATTTGKTNIAEAIAHAVPFYGCNVWT 360
3  ILELNGYDPQYAASVFLGWAQKKFGRNTIWLFGPATTTGKTNIAEAIAHAVPFYGCNVWT 360
4  ILELNGYDPQYAASVFLGWAQKKFGRNTIWLFGPATTTGKTNIAEAIAHAVPFYGCNVWT 360
5  ILEMNGYDPQYAASVFLGWAQKKFGRNTIWLFGPATTTGKTNIAEAIAHAVPFYGCNVWT 360
6  ILELNGYDPQYAASVFLGWATKKFGRNTIWLFGPATTTGKTNIAEAIAHTVPFYGCNVWT 360
7  IFEMNGYDPAYAGSILYGWCQRSFNKRNTVWLYGPATTTGKTNIAEAIAHTVPFYGCNVWT 356
C  I*E+NGY*P:YA:S***GW***:F*KRNT*WL*GPATTTGKTNIAEAIAH+VPFYGCNVWT
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1002390-13704

	370	380	390	400	410	420		
1	NENFPFNDCV	DKMVIW	WEEGKMTAKV	VESAKAILG	GSKVRVDQ	KCKSSAQID	PTPVIVTS 420	
2	NENFPFNDCV	DKMVIW	WEEGKMTAKV	VESAKAILG	GSKVRVDQ	KCKSSAQID	PTPVIVTS 420	
3	NENFPFNDCV	DKMVIW	WEEGKMTAKV	VESAKAILG	GSKVRVDQ	KCKSSAQIE	PTPVIVTS 420	
4	NENFPFNDCV	DKMVIW	WEEGKMTAKV	VESAKAILG	GSKVRVDQ	KCKSSAQIE	PTPVIVTS 420	
5	NENFPFNDCV	DKMVIW	WEEGKMTAKV	VESAKAILG	GSKVRVDQ	KCKSSAQID	PTPVIVTS 420	
6	NENFPFNDCV	DKMVIW	WEEGKMTAKV	VESAKAILG	GSKVRVDQ	KCKSSAQID	PTPVIVTS 420	
7	NENFPFNDCV	DKMLIW	WEEGKMTNKV	VESAKAILG	GSKVRVDQ	KCKSSVQID	STPVIVTS 416	
C	NENFPFNDCV	DKM*I	WEEGKMT*K	VVESAKAILG	GSKVRVDQ	KCKSS*QI	+*TPVIVTS	
	430	440	450	460	470	480		
1	NTNMC	CAVIDGN	STTFEHQ	QPLQDRM	MFKFELT	RRLEHDFG	KVTKQEVKEFFRWAQDHVTEV 480	
2	NTNMC	CAVIDGN	STTFEHQ	QPLQDRM	MFKFELT	RRLEHDFG	KVTKQEVKEFFRWAQDHVTEV 480	
3	NTNMC	CAVIDGN	STTFEHQ	QPLQDRM	MFKFELT	RRLDHDFG	KVTKQEVKDFFRWASDHVTDV 480	
4	NTNMC	CAVIDGN	STTFEHQ	QPLQDRM	MFKFELT	RRLDHDFG	KVTKQEVKDFFRWASDHVTDV 480	
5	NTNMC	CAVIDGN	STTFEHQ	QPLQDRM	MFKFELT	KRLEHDFG	KVTKQEVKDFFRWASDHVTEV 480	
6	NTNMC	CAVIDGN	STTFEHQ	QPLQDRM	MFKFELT	RRLDHDFG	KVTKQEVKDFFRWAKDHVVEV 480	
7	NTNMC	CVVDGN	STTFEHQ	QPLEDRM	MFKFELT	KRLPPDFG	KITKQEVKDFFAWAKVNQVPV 476	
C	NTNMC	*V	DGNSTTFEHQ	QPL*DRM	MFKFELT	+RL:*DFGK	*TKQEVK+FF*WA:***+:V	
	490	500			510	520		
1	AHEFYVRKGG	ANKRPAPDD	ADKSEPKRA	-----	CPSVADP	STSDAEG	522	
2	AHEFYVRKGG	ANKRPAPDD	ADKSEPKRA	-----	CPSVADP	STSDAEG	522	
3	AHEFYVRKGG	AKKR	PASNDADV	SEPKRQ	-----	CTSLAQPT	STSDAEA 522	
4	AHEFYVRKGG	AKKR	PASNDADV	SEPKRQ	-----	CTSLAQPT	STSDAEA 522	
5	THEFYVRKGG	ARKRPAPND	ADISEPKRA	-----	CPSVAQP	STSDAEA	522	
6	EHEFYVVKGG	AKKR	PAPSDAD	ISEPKRV	-----	RESVAQP	STSDAEA 522	
7	THEFKVP	REL	AGTKGA	EKSLKRPL	GDVTNTS	YKSLEKR	ARLSFVPETPRSSDVTVDPAPL 536	
C	:HEF	*V+***A	:***A	:***	:*****	:+*:*:*:***A	:*	
	530	540	550	560	570	580		
1	APVDFADRYQ	NKCSRHAG	MLQMLFP	CKTCERM	NQNFNIC	FTHGTRDC	SECFP--GVSESQ 580	
2	APVDFADRYQ	NKCSRHAG	MLQMLFP	CKTCERM	NQNFNIC	FTHGTRDC	SECFP--GVSESQ 580	
3	P-ADYADRYQ	NKCSRHV	GMNLM	LFPC	KTCERM	QISNVC	FTHGQRDCGECFP	PGMSSESQPV 581
4	P-ADYADRYQ	NKCSRHV	GMNLM	LFPC	KTCERM	QISNVC	FTHGQRDCGECFP	PGMSSESQPV 581
5	P-VDYADRYQ	NKCSRHV	GMNLM	LFPC	RQCERM	NQNV	DICFTHGVMDCAECFP	-VSESQPV 580
6	S-INYADRYQ	NKCSRHV	GMNLM	LFPC	RQCERM	NQNS	NICFTHGQKDCLECFP	--VSESQP 579
7	RPLNWN	SRDYDCK	CDYHAQ	FDNIS	SNKCDE	CEYLNR	GKNGCICHNVTHCQICHG	----- 588
C	:::+	:**RY**K	C**H	:**	:****C	:CE**N	:**C**H*:*C.*C**	:...+:::
	590	600	610	620				
1	PVVRKRTYR	KLCAIH	HLGRAPE	IIACSAC	DLVNVD	LDDCV	SEQ 623	
2	PVVRKRTYR	KLCAIH	HLGRAPE	IIACSAC	DLVNVD	LDDCV	SEQ 623	
3	SVVKKKTYQ	KLCPIH	HLGRAPE	IIACSAC	DLANVD	LDDCV	SEQ 624	
4	SVVKKKTYQ	KLCPIH	HLGRAPE	IIACSAC	DLANVD	LDDCV	SEQ 624	
5	SVVRKRTYQ	KLCPIH	HIMGRAPE	VAC	SACELAN	VDLDDC	DMEQ 623	
6	VSVVKKAYQ	KLCYIH	HIMG	-KVP	DACTAC	DLVNVD	LDDCIFEQ 621	
7	-----	-----	-----	IP	WEKEN	LSDFG	DFDDANKEQ 610	
C	:+*:	:*+*:	:***:	:***:	:*++++:	:**+***:	:**D*DD*::EO	